

In re Patent Application of:
OLSSON ET AL.
 Serial No. 09/147,230
 Filed: FEBRUARY 9, 1999

In the Specification:

Replace the paragraph beginning at page 5, line 24 through page 6, line 3, with the following rewritten paragraph:

--Said slope of said argument function, α_k , may be estimated from the equation

$$\alpha_k = \frac{1}{N} \sum_n L \frac{X_{n,k}}{n}$$

where N is the number of active carriers and $X_{n,k}$ is the unwrapped argument function for the nth carrier in the kth frame. --

Replace the paragraph beginning at page 6, line 4 through page 6, line 9, with the following rewritten paragraph:

--Said slope of said argument function, α_k , may be estimated from the equation

$$\alpha_k = \frac{2}{n_2 - n_0} \left[\sum_{n=n_1+1}^{n_2} LX_{n,k} - \sum_{n=n_0}^{n_1} LX_{n,k} \right]$$

where N is the number of active carriers, $X_{n,k}$ is the unwrapped argument function for the nth active carrier in the kth frame, indices n_0 and n_2 are the lower and upper limits respectively of the band and index n_1 divides the band into two equal parts.

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↓
 Replace the paragraph beginning at page 8, line 3 through page 8, line 7, with the following rewritten paragraph:

--Said slope of said argument function, α_k , may be estimated from the equation

$$\alpha_k = \frac{1}{N} \sum_n L \frac{X_{n,k}}{n}$$

where N is the number of active carriers and $X_{n,k}$ is the unwrapped argument function for the nth carrier in the kth frame. --

↓
 Replace the paragraph beginning at page 8, line 8 through page 8, line 13, with the following rewritten paragraph:

--Said slope of said argument function, α_k , may be estimated from the equation

$$\alpha_k = \frac{2}{n_2 - n_0} \left[\sum_{n=n_1+1}^{n_2} LX_{n,k} - \sum_{n=n_0}^{n_1} LX_{n,k} \right]$$

where N is the number of active carriers, $X_{n,k}$ is the unwrapped argument function for the nth active carrier in the kth frame, indices n_0 and n_2 are the lower and upper limits respectively of the band and index n_1 divides the band into two equal parts.

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Replace the paragraph beginning at page 11, line 19 through page 12, line 4, with the following rewritten paragraph:

--The average slope, α_k , of the linear part of the argument function can be calculated, as shown in equation (1), or by some other standard method, using the unwrapped argument function of X_k for the k th frame

$$\alpha_k = \frac{1}{N} \sum_n L \frac{X_{n,k}}{n} \dots \dots \dots (1)$$

where N is the number of active carriers and $X_{n,k}$ is the unwrapped argument function for the n th carrier in the k th frame.

Replace the equation on page 12, line 14, as follows:

$$\alpha_k = \frac{2}{n_2 - n_0} \left[\sum_{n=n_1+1}^{n_2} LX_{n,k} - \sum_{n=n_0}^{n_1} LX_{n,k} \right]$$